

Inter - Diffusion Generation Model of Speakers and Listeners for Effective Communication

Jinhe Huang*
19217124@njau.edu.cn
Nanjing Agriculture University
China

Gaoge Han
hanggaoge@nwafu.edu.cn
City University of Hong Kong
China

Shilei Wang
shileiwang@mail.nwpu.edu.cn
Northwestern Polytechnical University
China

Yongkang Cheng*†
19217105@njau.edu.cn
Nanjing Agriculture University
China

Jinwei Li
lijinwei231@mailsucas.ac.cn
University of Chinese Academy of
Sciences
China

Xingjian Gu ‡
guxingjian@njau.edu.cn
Nanjing Agriculture University
China

Minghang Yu*
1431605505@qq.com
Northwest A&F University
China

Jing Zhang
m17863974365@163.com
University of Chinese Academy of
Sciences
China

Abstract

Full-body gestures play a pivotal role in natural interactions and are crucial for achieving effective communication. Nevertheless, most existing studies primarily focus on the gesture generation of speakers, overlooking the vital role of listeners in the interaction process and failing to fully explore the dynamic interaction between them. This paper innovatively proposes an Inter-Diffusion Generation Model of Speakers and Listeners for Effective Communication. For the first time, we integrate the full-body gestures of listeners into the generation framework. By devising a novel inter-diffusion mechanism, this model can accurately capture the complex interaction patterns between speakers and listeners during communication. In the model construction process, based on the advanced diffusion model architecture, we innovatively introduce interaction conditions and the GAN model to increase the denoising step size. As a result, when generating gesture sequences, the model can not only dynamically generate based on the speaker's speech information but also respond in realtime to

the listener's feedback, enabling synergistic interaction between the two. Abundant experimental results demonstrate that compared with the current state-of-the-art gesture generation methods, the model we proposed has achieved remarkable improvements in the naturalness, coherence, and speech-gesture synchronization of the generated gestures. In the subjective evaluation experiments, users highly praised the generated interaction scenarios, believing that they are closer to real life human communication situations. Objective index evaluations also show that our model outperforms the baseline methods in multiple key indicators, providing more powerful support for effective communication.

Keywords: Gesture Generation; Diffusion Model

ACM Reference Format:

Jinhe Huang, Yongkang Cheng, Minghang Yu*, Gaoge Han, Jinwei Li, Jing Zhang, Shilei Wang, and Xingjian Gu *. 2025. Inter - Diffusion Generation Model of Speakers and Listeners for Effective Communication. In *Proceedings of the 2025 International Conference on Multimedia Retrieval (ICMR '25)*, June 30-July 3, 2025, Chicago, IL, USA. ACM, New York, NY, USA, 9 pages. <https://doi.org/10.1145/3731715.3733366>

1 Introduction

In the vast and evolving landscape of human communication research, the generation of natural looking body gestures has been a long standing and challenging pursuit, particularly in the burgeoning fields of virtual reality, gaming, and filmmaking. These non-verbal cues are far more than just supplementary elements; they are the lifeblood of immersive and realistic interactions. By seamlessly integrating with spoken language, body gestures can convey a wealth of information, including emotions, attitudes, and intentions, thereby enriching the overall communication experience.

*equal contribution

†project leader

‡corresponding author

Permission to make digital or hard copies of all or part of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyrights for components of this work owned by others than the author(s) must be honored. Abstracting with credit is permitted. To copy otherwise, or republish, to post on servers or to redistribute to lists, requires prior specific permission and/or a fee. Request permissions from permissions@acm.org.

ICMR '25, June 30-July 3, 2025, Chicago, IL, USA.

© 2025 Copyright held by the owner(s). Publication rights licensed to ACM.

ACM ISBN 978-8-4007-1877-9/2025/06...\$15.00

<https://doi.org/10.1145/3731715.3733366>

Speakers The Role Of Listeners

J Ma



Speakers The Role Of Listeners:

Speakers, Listeners and Communication Gillian Brown, 1995 In this book Gillian Brown draws on a wide range of examples of discourse analysis to explore the ways in which speakers and listeners use language collaboratively to talk about what they can see in front of them and about a series of events She examines the conditions under which communication is successful and the conditions under which it sometimes fails The focus of her attention is upon the listener's role as the listener tries to make sense of what the speaker says in a highly constrained context her cognitive pragmatic approach to discourse analysis both complements and challenges the sociological anthropological perspectives on the subject which currently predominate Gillian Brown is co author of the well known textbook *Discourse Analysis* Cambridge University Press 1983

The Handbook of Listening Debra L. Worthington, Graham D. Bodie, 2020-06-26 A unique academic reference dedicated to listening featuring current research from leading scholars in the field The Handbook of Listening is the first cross disciplinary academic reference on the subject gathering the current body of scholarship on listening in one comprehensive volume This landmark work brings together current and emerging research from across disciplines to provide a broad overview of foundational concepts methods and theoretical issues central to the study of listening The Handbook offers diverse perspectives on listening from researchers and practitioners in fields including architecture linguistics philosophy audiology psychology and interpersonal communication Detailed yet accessible chapters help readers understand how listening is conceptualized and analyzed in various disciplines review the listening research of current scholars and identify contemporary research trends and areas for future study Organized into five parts the Handbook begins by describing different methods for studying listening and examining the disciplinary foundations of the field Chapters focus on teaching listening in different educational settings and discuss listening in a range of contexts Filling a significant gap in listening literature this book Highlights the multidisciplinary nature of listening theory and research Features original chapters written by a team of international scholars and practitioners Provides concise summaries of current listening research and new work in the field Explores interpretive physiological phenomenological and empirical approaches to the study of listening Discusses emerging perspectives on topics including performative listening and augmented reality An important contribution to listening research and scholarship The Handbook of Listening is an essential resource for students academics and practitioners in the field of listening particularly communication studies as well as those involved in linguistics language acquisition and psychology

Variability in language predictions: Assessing the influence of speaker, text and experimental method Franziska Kretzschmar, Martine Grice, Phillip M. Alday, Roel M. Willems, Ingmar Brilmayer, 2023-06-14

The Routledge Handbook of Public Speaking Research and Theory Stevie M. Munz, Tim McKenna-Buchanan, Anna M. Wright, 2024-04-18 Providing a comprehensive survey of the empirical research theory and history of public speaking this handbook fills a crucial gap in public speaking pedagogy resources and provides a foundation for future research and

pedagogical development Bringing together contributions from both up and coming and senior scholars in the field this book offers a thorough examination of public speaking guided by research across six key themes the history of public speaking the foundations of public speaking issues of diversity equity and inclusion considerations of public speaking across contexts assessment of public speaking and the future of public speaking in the twenty first century The evidence based chapters engage with a broad discussion of public speaking through a variety of viewpoints to demonstrate how subtopics are connected and fraught with complexity Contributors explore public speaking in education business and professional settings and political contexts and outline how skills learned through public speaking are applicable to interpersonal small group and business interactions Reinforcing the relevance importance and significance of public speaking in individual interpersonal social and cultural communication contexts this accessibly written handbook will be an indispensable resource for public speaking instructors and program administrators It will also be valuable reading for Communication Pedagogy and

Introduction to Graduate Studies courses **The Routledge Handbook of Second Language Acquisition and Listening**

Elvis Wagner,Aaron Olaf Batty,Evelina Galaczi,2024-07-29 The Routledge Handbook of Second Language Acquisition and Listening offers a state of the art systematic discussion of the role of listening in second language acquisition SLA and use This handbook positions listening not just as a receptive comprehension skill but also as an integral part of interaction a vital component in the process of language acquisition and a skill which needs attention in its own right World leading international scholars synthesize and contextualize the salient theoretical approaches methodological issues empirical findings practical applications and emerging themes in L2 listening development and processing They illustrate the role that L2 listening ability plays in understanding SLA and interactional competence and set the future research agenda to move the field forward This volume is an indispensable resource to students scholars and practitioners from the fields of SLA cognitive psychology language teaching and assessment as well as those interested in pronunciation speaking and oral communication

Emotional Intelligence Training Karl Mulle,2016-08-29 When it comes to reaching peak performance emotional intelligence is key Research shows that emotional intelligence is more important to performance than ability and technical skill combined But is EI a skill that can be developed in others Absolutely Trainer Karl Mulle has developed a collection of complete workshops and tools you ll need to conduct effective two day one day and half day emotional intelligence workshop programs Free tools and customization options The free ready to use resources PDF that accompany this book include downloadable presentation materials agendas handouts assessments and tools All workshop program materials including MS Office PowerPoint presentations and MS Word handouts may be customized for an additional licensing fee Browse the licensing options in the Custom Material License pricing menu About the Series The ATD Workshop Series is written for trainers by trainers because no one knows workshops as well as the practitioners who have done it all Each publication weaves in today s technology and accessibility considerations and provides a wealth of new content that can be used to

create a training experience like no other **Nonverbal Behavior and Communication** Aaron W. Siegman, Stanley Feldstein, 2014-01-02 First published in 1987 An attractive feature of nonverbal communication as a research area is that it has captured the interest of scholars of different disciplinary backgrounds psychologists linguists anthropologists psychiatrists and sociologists with each discipline bringing to the area its peculiar theoretical and methodological perspectives and biases Each of these disciplines also tend to have a favorite topic or problem area within the general domain of nonverbal communication Along with the varying yet overlapping topical concerns that the different disciplines bring to the area of nonverbal communication are major differences in methodology The sections into which the book is divided roughly organize the chapters in terms of their concerns with the bodily structures and zones that are involved in nonverbal behavior **Public Health Service Publication** ,1969 *Training Methodology: Instructional methods and techniques* ,1969 *Training Methodology* National Communicable Disease Center (U.S.),1969 1434 annotated references from monographs journals and government publications indicating current thought on training methodology Most were published from Jan 1960 to Mar 1968 Entries arranged according to topics Each of the four parts has a subject index

This is likewise one of the factors by obtaining the soft documents of this **Speakers The Role Of Listeners** by online. You might not require more times to spend to go to the books establishment as competently as search for them. In some cases, you likewise attain not discover the proclamation Speakers The Role Of Listeners that you are looking for. It will no question squander the time.

However below, following you visit this web page, it will be therefore unquestionably easy to get as skillfully as download lead Speakers The Role Of Listeners

It will not recognize many era as we tell before. You can accomplish it even if behave something else at house and even in your workplace. so easy! So, are you question? Just exercise just what we meet the expense of below as competently as review **Speakers The Role Of Listeners** what you next to read!

<https://archive.kdd.org/files/scholarship/default.aspx/teachers%20and%20educational%20change%20the%20lived%20experience%20of%20secondary%20school.pdf>

Table of Contents Speakers The Role Of Listeners

1. Understanding the eBook Speakers The Role Of Listeners
 - The Rise of Digital Reading Speakers The Role Of Listeners
 - Advantages of eBooks Over Traditional Books
2. Identifying Speakers The Role Of Listeners
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Speakers The Role Of Listeners
 - User-Friendly Interface

4. Exploring eBook Recommendations from Speakers The Role Of Listeners
 - Personalized Recommendations
 - Speakers The Role Of Listeners User Reviews and Ratings
 - Speakers The Role Of Listeners and Bestseller Lists
5. Accessing Speakers The Role Of Listeners Free and Paid eBooks
 - Speakers The Role Of Listeners Public Domain eBooks
 - Speakers The Role Of Listeners eBook Subscription Services
 - Speakers The Role Of Listeners Budget-Friendly Options
6. Navigating Speakers The Role Of Listeners eBook Formats
 - ePub, PDF, MOBI, and More
 - Speakers The Role Of Listeners Compatibility with Devices
 - Speakers The Role Of Listeners Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Speakers The Role Of Listeners
 - Highlighting and Note-Taking Speakers The Role Of Listeners
 - Interactive Elements Speakers The Role Of Listeners
8. Staying Engaged with Speakers The Role Of Listeners
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Speakers The Role Of Listeners
9. Balancing eBooks and Physical Books Speakers The Role Of Listeners
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Speakers The Role Of Listeners
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Speakers The Role Of Listeners
 - Setting Reading Goals Speakers The Role Of Listeners
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Speakers The Role Of Listeners
 - Fact-Checking eBook Content of Speakers The Role Of Listeners
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Speakers The Role Of Listeners Introduction

In the digital age, access to information has become easier than ever before. The ability to download Speakers The Role Of Listeners has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Speakers The Role Of Listeners has opened up a world of possibilities. Downloading Speakers The Role Of Listeners provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Speakers The Role Of Listeners has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Speakers The Role Of Listeners. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Speakers The Role Of Listeners. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When

downloading Speakers The Role Of Listeners, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Speakers The Role Of Listeners has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Speakers The Role Of Listeners Books

What is a Speakers The Role Of Listeners PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it.

How do I create a Speakers The Role Of Listeners PDF? There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF.

How do I edit a Speakers The Role Of Listeners PDF? Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Speakers The Role Of Listeners PDF to another file format?**

There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Speakers The**

Role Of Listeners PDF? Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file

size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Speakers The Role Of Listeners :

teachers and educational change the lived experience of secondary school.

teach a guide to effective sabbath school teaching

teachers survival level 6

te cubrire con alas

teachers human rights and diversity educating citizens in multicultural societies

teachers laborator guide chemistry experiments and principles

tasty thanksgiving feast

teach yourself transact sql in 21 days

tax procedure and tax fraud in a nutshell in a nutshell west publishing

te reto a pensar avanzado habilidades matematicas y linguisticas

teachers and the law education paperbacks

teachers and parents - a guide to interaction and cooperation

teacher supervision and evaluation

~~tea ceremony utensils~~

teachers resource materials the language of literature; level 7

Speakers The Role Of Listeners :

Healing America's Wounds: Dawson, John: 9780830716920 Here's is an intercessor's handbook, a guide to tak-ing part in the amazing things of God is doing today. Read more. About the author. Healing Americas Wounds: Discovering Our Destiny That redemptive purpose is best approached through facing the walls or divisions, identifying with sins-- present and past, confessing them before God and men ... Healing Americas Wounds: Discovering Our Destiny Here's is an intercessor's handbook, a guide to tak-ing part in the amazing things of God is doing today. About the Author: John Dawson, a native of

New Zealand ... Healing America's Wounds - Dawson, John: 9780830716920 Here's is an intercessor's handbook, a guide to tak-ing part in the amazing things of God is doing today. "synopsis" may belong to another edition of this ... Healing America's Wounds by John Dawson Here's is an intercessor's handbook, a guide to tak-ing part in the amazing things of God is doing today. GenresPrayerNonfiction. 280 pages, Hardcover. Healing America's Wounds: Discovering Our Destiny This intercessor's handbook is the foundational, cutting-edge text on national repentance and reconciliation. A powerful message of hope from the author of ... Healing America's Wounds - John Dawson, Virginia Woodard The author tells how to turn away from the systems that promote evil and hinder God's redemptive purpose in America. Learn how to play a part in breaking down ... Healing America's Wounds Some slight water staining on a few pages. Here's is an intercessor's handbook, a guide to tak-ing part in the amazing things of God is doing today. Healing America's Wounds Hosted by John Dawson, author of the best-selling books, "Healing America's Wounds" and "Taking our Cities for God" and founder of the International ... Healing America's Wounds by John Dawson, Hardcover in excellent condition with no missing or torn pages. no highlighted or underlined passages in the book. no damage to the spine or covers. Visual Basic 2008 in Simple Steps Visual Basic 2008 in Simple Steps [KOGENT SOLUTIONS INC] on Amazon ... Visual Basic 2008 in Simple Steps. 4.0 4.0 out of 5 stars 2 Reviews. Visual Basic 2008 ... Visual Basic 2008 Tutorial Apr 12, 2020 — Visual Basic 2008 Tutorial provides many FREE lessons to help everyone learn Visual Basic programming effortlessly. Installing Visual Basic In order to create Windows applications with the Visual Basic programming language you will first need to install a Visual Basic. Visual Basic 2008 in Simple Steps - Softcover Visual Basic 2008 in Simple Steps by KOGENT SOLUTIONS INC - ISBN 10: 8177229184 - ISBN 13: 9788177229189 - WILEY - 2009 - Softcover. Visual Basic 2008 In Simple Steps - Kogent Solutions Inc This is a book that helps you to learn Visual Basic using Visual Studio 2008. Precision, an easy-to-understanding style, real life examples in support of ... Creating Your First Program in Visual Basic : 7 Steps Step 1: Download Visual Basic · Step 2: Create Your Project. · Step 3: Add Controls · Step 4: Edit Control Properties · Step 5: Add Code · Step 6: Save and Test. Microsoft Visual Basic 2008 Step by Step eBook program is still quite simple with Visual Studio and Visual Basic 2008. You can construct a complete user interface by creating two objects, setting two ... Visual Basic 2008 in Simple Steps | PDF An all-inclusive book to * Quick and Easy learning in Sami teach you everything about Simple Steps drear ech Visual Basic 2008 * Mast preferred choice ... Realidades 2: Practice Workbook 2 - 1st Edition - Solutions ... Find step-by-step solutions and answers to Realidades 2: Practice Workbook 2 - 9780130360021, as well as thousands of textbooks so you can move forward with ... Realidades 2 answers (keep it lowkey) Flashcards Study with Quizlet and memorize flashcards containing terms like <http://www.slader.com/textbook/9780130360021-practice-workbook-2/>, I need two terms to ... Realidades 2 (Chapter 5B) Horizontal. Vertical. 4) TO STITCH (SURGICALLY). 1) TO TRIP OVER/TO BUMP INTO. 5) THE PAIN. 2) TO GIVE AN INJECTION. 6) TO HURT ONE. 3) POOR THING. Realidades 2 5b Crossword Crossword with 12 clues. Print, save as a PDF

or Word Doc. Customize with your own questions, images, and more. Choose from 500000+ puzzles. Realidades 2 5b activities Includes three engaging readings so that students see chapter vocabulary and grammar in action! Each reading includes its own set of comprehension questions ... Core 5B-8 crossword answers.pdf 1. red-haired (m.) 2. El Sr. López es un _____. 3. napkin. 4. Nosotros ____ ... Realidades 2 capitulo 5a answers Realidades 2 capitulo 5a answers. Writing, Audio & Video Activity Workbook: Cap. With Expert Solutions for thousands of practice problems, you can take the ... Realidades 2 Capítulo 5b Answers Form - Fill Out and Sign ... Realidades 2 Capitulo 5b. Check out how easy it is to complete and eSign documents online using fillable templates and a powerful editor. Realidades 2 5a 8 Apr 8 2014 Explore SaboridoF's board Realidades 2 Tema 3B followed by 109 ... answers realidades 2 capitulo 5a 8 crossword repaso answers pdf. Realidades ...